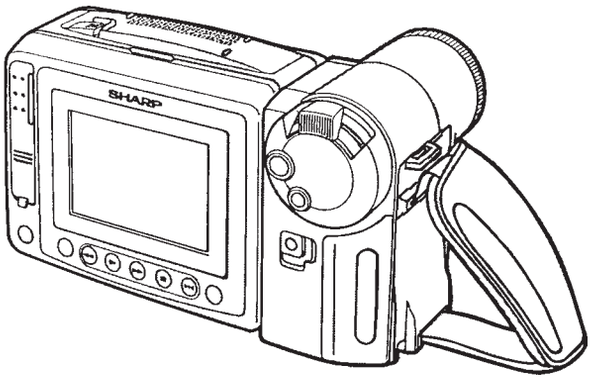
SHARP SERVICE MANUAL

S19C2VL-E630S



LIQUID CRYSTAL CAMCORDER 8 PAL

MODELS VL-E630S VL-E630H VL-E680S VL-E97E VL-E99E

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified be used.

In this Service Manual, only the differences from VL-E610S/660H/660S/96E/98E are described.
Therefore, for the parts which are not described in this Service Manual, refer to the Service Manual for VL-E610S/660H/660S/96E/98E (S68R5VL-E610S).

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SHARP CORPORATION

1. SPECIFICATIONS

Signal System:	PAL standard
Recording System:	2 rotary heads, helical scanning system
Cassette:	8 mm video tape, MP type
Recording/Playback Time:	120 minutes (P5-120)
Tape Speed:	20.051 mm/second
Pickup Device:	1/4" (6.4mm, effective size: 4.5 mm) CCD image sensor with approx. 320,000 pixels including optical black
Lens:	16 × power zoom lens (F1.4, f=4.0-64.0 mm) and full-range auto focus
Lens Filter Diameter:	46 mm
Monitor:	3" (7.5 cm)—full-color LCD screen (TFT active matrix)
Microphone:	Electret monaural microphone
Color Temperature Compensation:	Auto white balance
Minimum Illumination:	0.8 lux (5 lux measured by EIA standard) (with gain-up, F1.4)
Video Output Level:	1.0 Vp-p 75-ohm unbalanced
Audio Output Level:	–8 dBs, impedance less than 2.2 kohms
Speaker Output:	200 mW
Power Requirement:	DC 3.6V
Power Consumption:	E630S/E630H/E97E:4.8W (during camera recording in full auto mode with zoom motor off, and backlight in normal mode) E680S/E99E:4.9W (during camera recording in full auto mode with zoom motor off, Extend Zoom, DIS and Snapshot functions off, and backlight in normal mode)
Operating Temperature:	0°C to + 40°C (32°F to 104°F)
Operating Humidity:	30% to 80%
Storage Temperature:	–20°C to +60°C (–4°F to 140°F)
Dimensions (approx.):	182 mm (W) × 109 mm (H) × 99 mm (D)
Weight (approx.):	690g (without battery pack, lithium battery, video cassette, and lens cap)

AC Adapter/Battery Charger UADP-0280TAZZ UADP-0281TAZZ(VL-E630H)

Power Requirement:	AC 110-240 V, 50/60 Hz
DC Output:	4.5 V
Power Consumption:	16 W
Dimensions (approx.):	75 mm (W) × 51 mm (H) × 130 mm (D)
Weight (approx.):	220 g

Battery Pack BT-H22

DC Output:	3.6V
Dimensions (approx.):	54 mm (W) × 19 mm (H) × 56 mm (D)]
Weight (approx.):	0.30 lbs (136 g)

Specifications are subject to change without notice.

3. DISASSEMBLY OF THE SET

3-4. INITIAL SETTING OF E²PROM IC

3-4-2. IC702 (E²PROM)

When the IC702 has been replaced, make the following settings and adjustments.

3. Setting up the V ADJ mode as follows.

* After press the CONTINUE key, press the VCR ADJ key on service remote control (RRMCG0033TASA).

	E630S	E630H	E680S	E97EX	E99EX
address	data	data	data	data	data
02	0A	0A	0A	0B	0B
0A	F5	F5	F5	F4	F4
03	80	88	B0	88	FA
0B	7F	77	4F	77	05
05	00	00	00	40	40
0D	FF	FF	FF	BF	BF
01	00	00	00	00	00
04	00	00	00	00	00

4. MECHANISM ADJUSTMENT

4-3. Mechanism checks and adjustments

4-3-4. Checking and adjusting the tension pole position

(1) Check

When winding of P5-120 tape is started, check whether the tension pole is in the specified position against Si roller as shown or not.

If it is not in the specified position, remove the cassette and adjust the position in the following procedure.

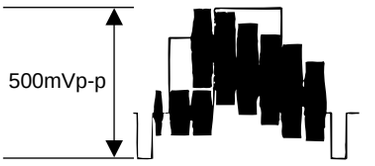
5. ADJUSTMENT OF VCR

5-1. ADJUSTMENT OF VCR SECTION

5-1-5. Y/C circuit adjustment method

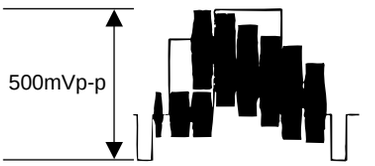
2. Adjustment of input Y level

Measuring instrument	Oscilloscope
Mode	VCR STOP
Input signal	Color bar
Measuring point	TL801
Adjustment address	32
Adjustment level	500 mVp-p ± 20 mVp-p



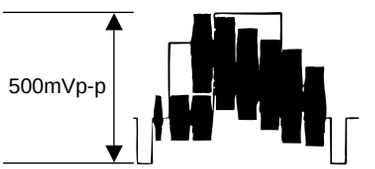
3. Adjustment of playback Y level

Measuring instrument	Oscilloscope
Mode	PB
Playback signal	Color bar (JiGWR5-5CSP)
Measuring point	TL801
Adjustment address	27
Adjustment level	500 mVp-p ± 20 mVp-p



5. Adjustment of Y-FM deviation

Measuring instrument	Oscilloscope
Mode	REC/PB (self-playback/recording)
Input signal	Color bar
Measuring point	TL801
Adjustment address	34
Adjustment level	500 mVp-p ± 20 mVp-p



5-1-7. Adjustment of LCD display circuit

10. Inverter input voltage setting

Measuring point	LCD panel display surface
Address	11, 12
Mode	VCR AV input
Adjusting method	Set the data of address 11 and 12.
Adjustment standard	11=BD
	12=8E
Remarks	————————

5-2. ADJUSTMENT OF CAMERA SECTION

5-2-2. Adjustment procedures

5-2-2-2. Auto focus adjustment

• Basic iris adjustment

1) Set up the auto focus adjustment mode. (Write 01 to the address 1FE)

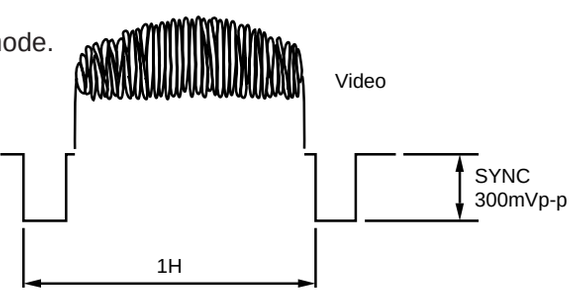
2) Write the adjustment data 09, 0A and 0B one after the other to the address 1FF, the adjustment are as follows.

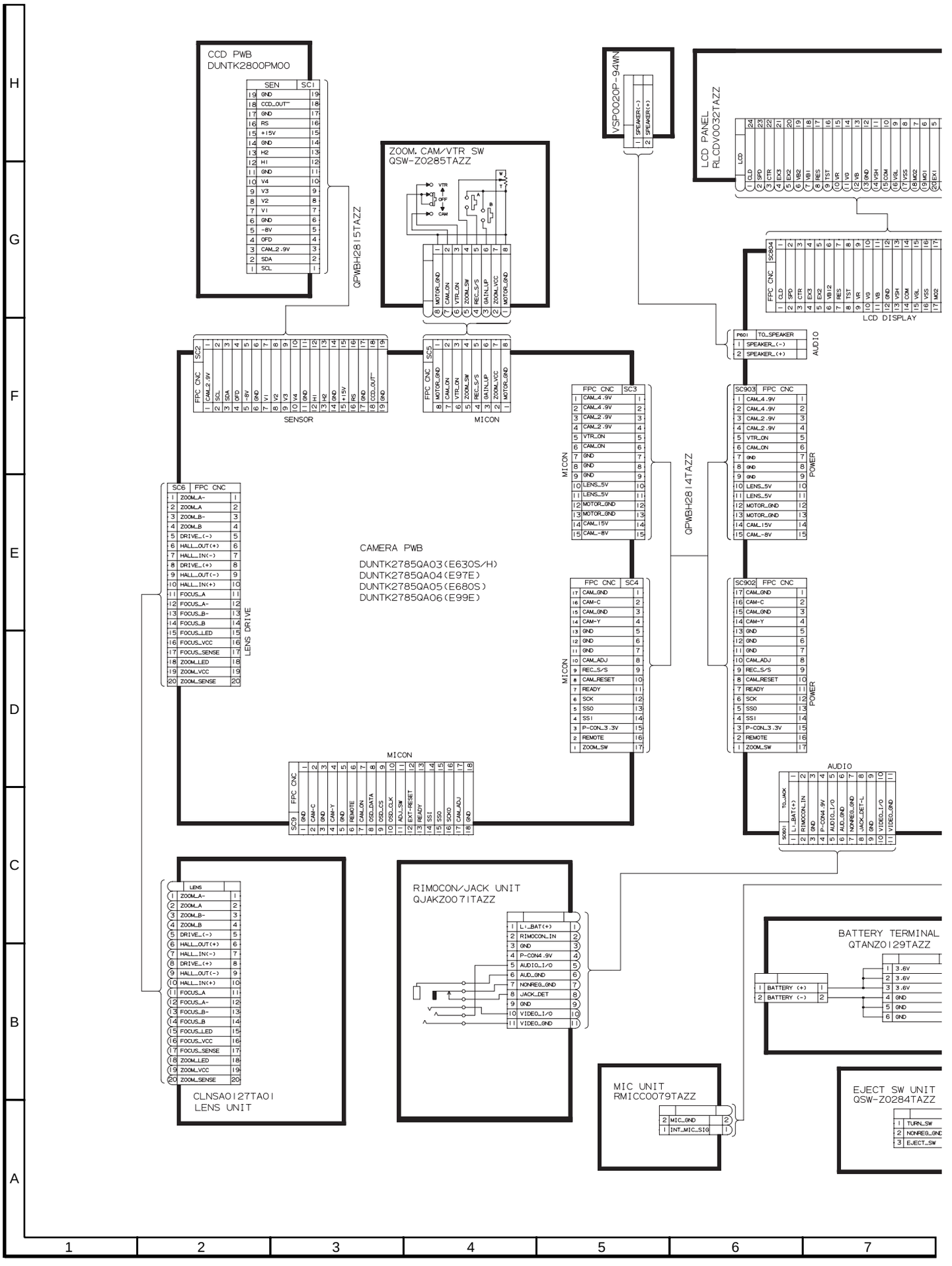
5-2-2-3.

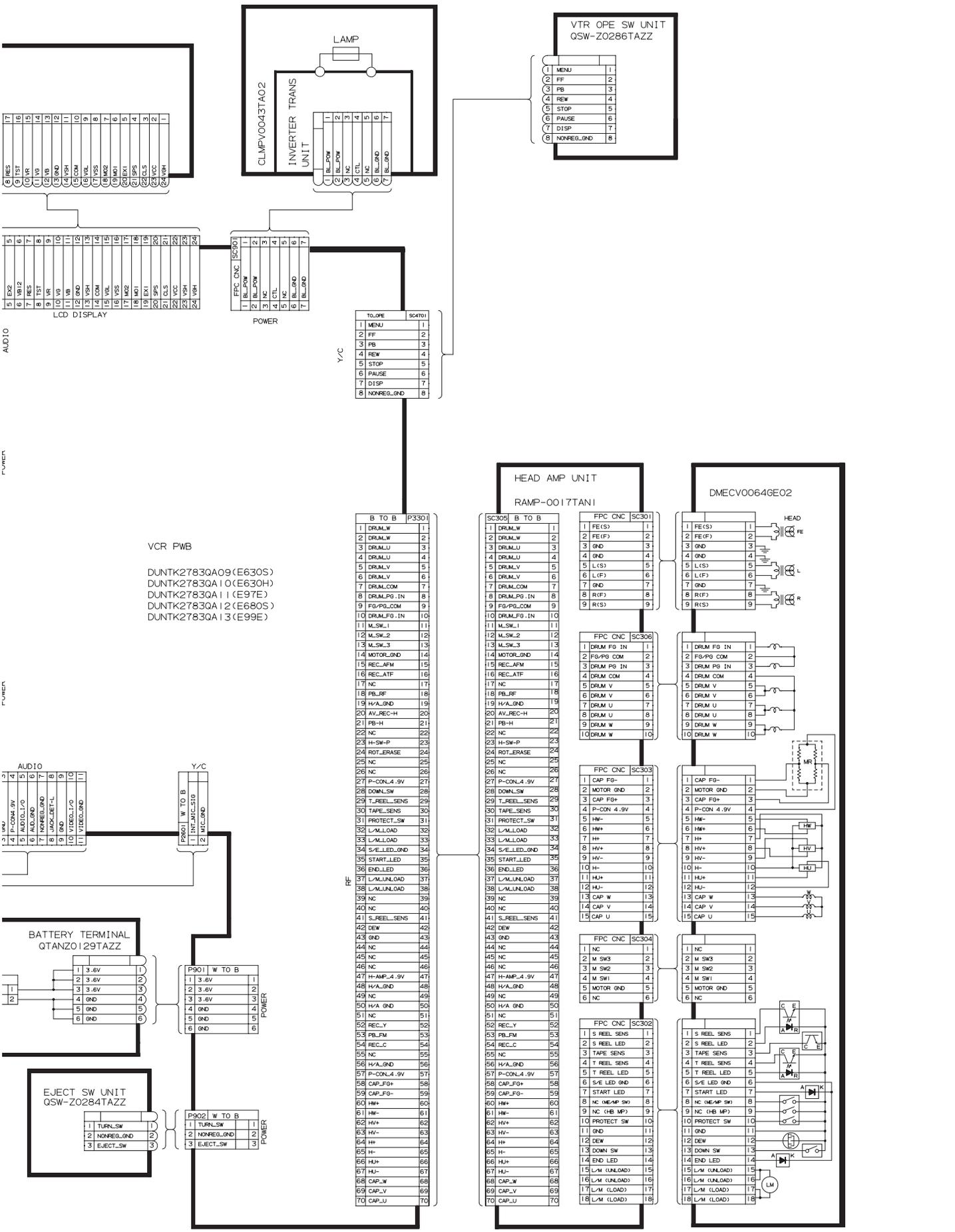
Before starting these adjustments, set up the auto focus adjustment mode.

• Sync level adjustment

Measuring instrument	Oscilloscope
Subject	Anything
Tape	—
Test point	VIDEO OUT (Terminated in 75Ω)
Adjustment address	1F8
Adjustment level	300mVp-p

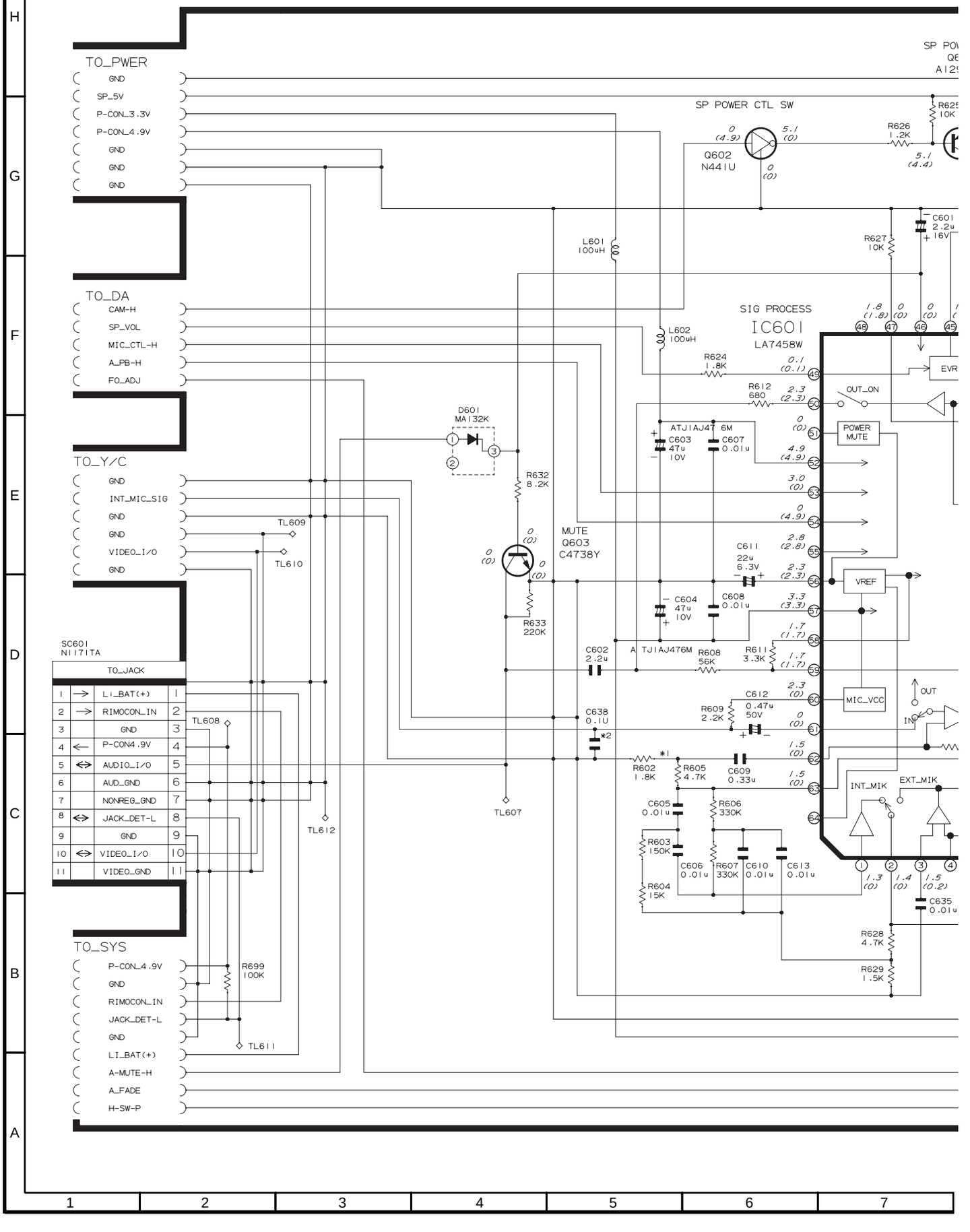


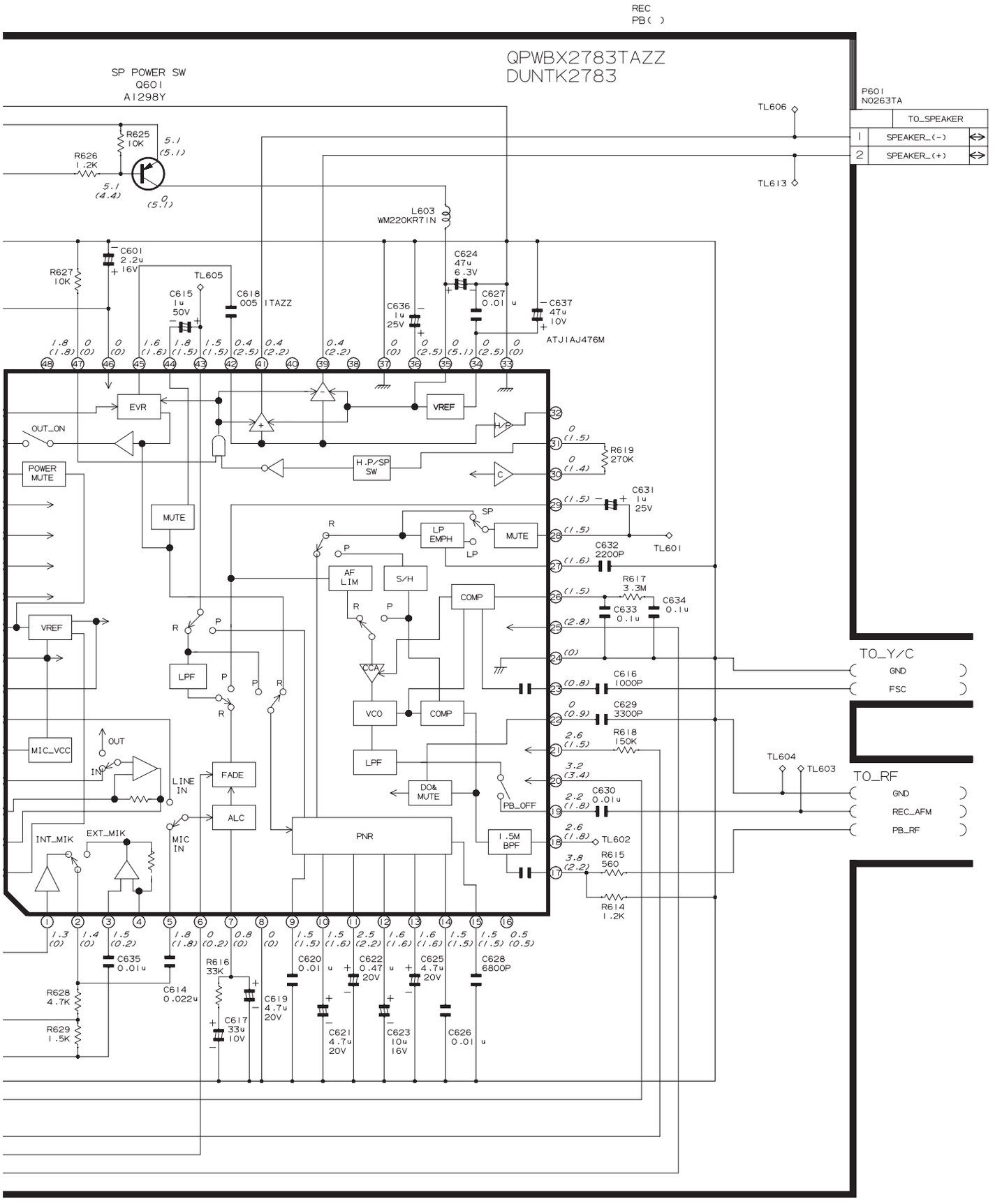

CCD PWB
DUNTK2800PM00
QPWBH2815TAZZ
ZOOM, CAM/VTR SW
QSW-Z0285TAZZ
VSP0020P-94WN
LCD PANEL
RLCDV0032TAZZ
LCD DISPLAY
AUDIO
SENSOR
MICON
POWER
CAMERA PWB
DUNTK2785QA03(E630S/H)
DUNTK2785QA04(E97E)
DUNTK2785QA05(E680S)
DUNTK2785QA06(E99E)
QPWBH2814TAZZ
LENS DRIVE
CLNSA0127TA01
LENS UNIT
RIMOCON/JACK UNIT
QJAKZ0071TAZZ
BATTERY TERMINAL
QTANZ0129TAZZ
MIC UNIT
RMICC0079TAZZ
EJECT SW UNIT
QSW-Z0284TAZZ


LAMP
CLMPV0043TAO2
INVERTER TRANS UNIT
VTR OPE SW UNIT
QSW-Z0286TAZZ
LCD DISPLAY
POWER
AUDIO
Y/C
VCR PWB
DUNTK2783QA09(E630S)
DUNTK2783QA10(E630H)
DUNTK2783QA11(E97E)
DUNTK2783QA12(E680S)
DUNTK2783QA13(E99E)
HEAD AMP UNIT
RAMP-0017TAN1
DMECV0064GE02
HEAD
BATTERY TERMINAL
QTANZ0129TAZZ
EJECT SW UNIT
QSW-Z0284TAZZ
RF

7. SCHEMATIC DIAGRAMS

7-3. AUDIO CIRCUIT SCHEMATIC DIAGRAM




REC
PB( )
QPWBX2783TAZZ
DUNTK2783
SP POWER SW
Q601
A1298Y
P601
N0263TA
TO_SPEAKER
SPEAKER_(-)
SPEAKER_(+)
TL606
TL613
L603
WM220KR7IN
C624
47u
6.3V
C627
0.01 u
C637
47u
10V
ATJ1AJ476M
C601
2.2u
16V
R627
10K
TL605
C615
1u
50V
C618
005 1TAZZ
C636
1u
25V
R625
10K
R626
1.2K
EVR
VREF
OUT_ON
POWER
MUTE
MUTE
H.P/SP
SW
H/P
C
R619
270K
C631
1u
25V
TL601
LP
EMPH
MUTE
SP
LP
AF
LIM
S/H
COMP
C632
2200P
R617
3.3M
C633
0.1u
C634
0.1u
VREF
LPF
CCA
VCO
COMP
C616
1000P
C629
3300P
R618
150K
LPF
DO&
MUTE
PB_OFF
C630
0.01u
TL604
TL603
TO_RF
GND
REC_AFM
PB_RF
TO_Y/C
GND
FSC
MIC_VCC
OUT
IN
LINE
IN
FADE
ALC
INT_MIK
EXT_MIK
MIC
IN
PNR
1.5M
BPF
TL602
R615
560
R614
1.2K
C635
0.01u
C614
0.022u
R628
4.7K
R629
1.5K
R616
33K
C617
33u
10V
C619
4.7u
20V
C620
0.01 u
C621
4.7u
20V
C622
0.47 u
20V
C623
10u
16V
C625
4.7u
20V
C626
0.01 u
C628
6800P

VL-E630S/VL-E630H
VL-E680S/VL-E97E
VL-E99E

10. REPLACEMENT PARTS LIST/ EXPLODED VIEWS

ELECTRICAL PARTS LIST

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

" HOW TO ORDER REPLACEMENT PARTS "

★MARK : SPARE PARTS-DELIVERY SECTION:ALL JAPAN

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER **2. REF. NO.**
3. PART NO. **4. DESCRIPTION**
5. PRICE CODE

⚠ MARK: SAFETY RELATED PARTS

PWB ASSEMBLY IS NOT REPLACEMENT ITEM

Ref. No.	Part No.	★	Description	Code

PRINTED WIRING BOARD ASSEMBLIES *(NOT REPLACEMENT ITEM)*

DUNTK2783QA09	VCR Unit(VL-E630S)	—
DUNTK2783QA10	VCR Unit(VL-E630H)	—
DUNTK2783QA11	VCR Unit(VL-E97E)	—
DUNTK2783QA12	VCR Unit(VL-E680S)	—
DUNTK2783QA13	VCR Unit(VL-E99E)	—
DUNTK2785QA03	CAMERA Unit(VL-E630S/H)	—
DUNTK2785QA04	CAMERA Unit(VL-E97E)	—
DUNTK2785QA05	CAMERA Unit(VL-E680S)	—
DUNTK2785QA06	CAMERA Unit(VL-E99E)	—

DUNTK2783QA09 VCR UNIT(VL-E630S)
DUNTK2783QA10 VCR UNIT(VL-E630H)
DUNTK2783QA11 VCR UNIT(VL-E97E)
DUNTK2783QA12 VCR UNIT(VL-E680S)
DUNTK2783QA13 VCR UNIT(VL-E99E)

TRANSISTOR

Q415	VSUPUMT1///-1	Transistor	AC

RESISTORS

R447	VRS-CZ1JF122J	1.2k	1/16W	Metal Oxide	AA
R454	VRS-CZ1JF102D	1k	1/16W	Metal Oxide	AA
R455	VRS-CZ1JF102D	1k	1/16W	Metal Oxide	AA
R815	VRS-CZ1JF000J	0	1/16W	Metal Oxide	AA
R6404	VRS-CZ1JF122J	1.2k	1/16W	Metal Oxide	AA
R6405	VRS-CZ1JF122J	1.2k	1/16W	Metal Oxide	AA
R6406	VRS-CZ1JF102J	1k	1/16W	Metal Oxide	AA
R8407	VRS-CZ1JF122J	1.2k	1/16W	Metal Oxide	AA
R8422	VRS-CZ1JF103J	10k	1/16W	Metal Oxide	AA
R8428	VRS-CZ1JF152J	1.5k	1/16W	Metal Oxide	AA
R9405	VRS-CZ1JF102J	1k	1/16W	Metal Oxide	AA

DUNTK2785QA03 CAMERA UNIT(VL-E630S/H)
DUNTK2785QA04 CAMERA UNIT(VL-E97E)
DUNTK2785QA05 CAMERA UNIT(VL-E680S)
DUNTK2785QA06 CAMERA UNIT(VL-E99E)

INTEGRATED CIRCUITS

IC251	RH-iX0490TAZZ	IX0490TA(VL-E680S/E99E)	BB
IC252	VHiMS548331-1	MSM548331TS-K	BD
IC501	RH-iX0589TAZZ	UPD784037GK513 (VL-E680S/E99E)	AX
IC501	RH-iX0590TAZZ	UPD784036GK515 (VL-E630S/E97E)	AW

COIL AND TRANSFORMERS

L251	VPAXM100KR42N	Peaking 10µH 10% (VL-E680S/E99E)	AC
L252	VPAXM100KR42N	Peaking 10µH 10% (VL-E680S/E99E)	AC

CAPACITORS

C251	VCSATA0JJ156M	15 6.3V Tantalum (VL-E680S/E99E)	AC
C252	VCKYCZ1HF103Z	0.01 50V Ceramic (VL-E680S/E99E)	AB
C253	VCKYCZ1HF103Z	0.01 50V Ceramic (VL-E680S/E99E)	AB
C254	VCKYCZ1HF103Z	0.01 50V Ceramic (VL-E680S/E99E)	AB
C255	VCKYCZ1AF104Z	0.1 10V Ceramic (VL-E680S/E99E)	AB
C256	VCKYCZ1HF103Z	0.01 50V Ceramic (VL-E680S/E99E)	AB
C257	VCKYCZ1AF104Z	0.1 10V Ceramic (VL-E680S/E99E)	AB
C258	VCKYCZ1HF103Z	0.01 50V Ceramic (VL-E680S/E99E)	AB
C259	VCKYCZ1AF104Z	0.1 10V Ceramic (VL-E680S/E99E)	AB
C260	VCSATA0JJ156M	15 6.3V Tantalum (VL-E680S/E99E)	AC
C261	VCKYCZ1HF103Z	0.01 50V Ceramic (VL-E680S/E99E)	AB

RESISTORS

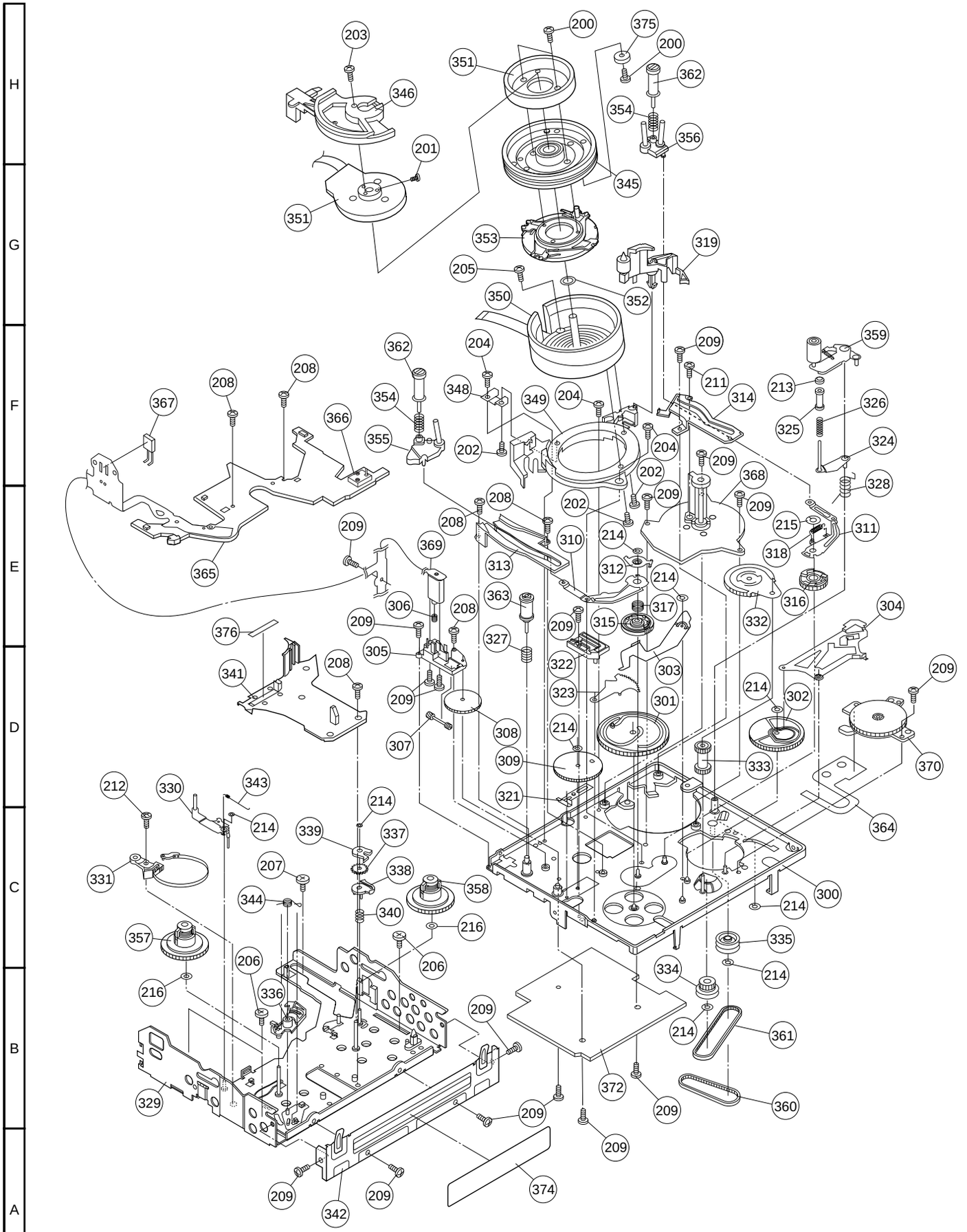
R251	VRS-CZ1JF000J	0	1/16W	Metal Oxide (VL-E680S/E99E)	AA
R254	VRS-CZ1JF000J	0	1/16W	Metal Oxide (VL-E680S/E99E)	AA
R256	VRS-CZ1JF000J	0	1/16W	Metal Oxide (VL-E680S/E99E)	AA
R536	VRS-CZ1JF153J	15k	1/16W	Metal Oxide	AA
R576	VRS-CZ1JF393J	39k	1/16W	Metal Oxide	AA
R582	VRS-CZ1JF334D	330k	1/16W	Metal Oxide	AA
R597	VRS-CZ1JF244D	240k	1/16W	Metal Oxide	AA

Note:

In this chapter, only the differences from VL-E610S/ 660S/96E/98E are described. Therefore, for the parts which are not described in this page, refer to the Service Manual for VL-E610S/H/660S/96E/98E (S68R5VL-E610S) chapter 10.

VL-E630S/VL-E630H
VL-E680S/VL-E97E
VL-E99E

MECHANISM CHASSIS EXPLODED VIEW



VL-E630S/VL-E630H
VL-E680S/VL-E97E
VL-E99E

MECHANISM PARTS

Ref. No.	Part No.	★	Description	Code
300	LCHSM0163GEZZ		Main Chassis Ass'y	AW
301	NGERH1280GEZZ		Main Cam	AD
302	NGERH1281GEZZ		Sub-Cam	AD
303	MLEVF0470GEFW		Eject Lever	AD
304	MLEVF0492GEFW		M Function Lever	AF
305	LHLDZ1966GEZZ		L Block Holder	AD
306	NGERW1064GEZZ		Worm Pulley	AC
307	NGERW1065GEZZ		Worm	AD
308	NGERH1282GEZZ		Worm Wheel	AC
309	NGERH1283GEZZ		Lo Relay Gear	AC
310	MARMM0126GEZZ		S Lo Arm Ass'y	AF
311	MARMM0128GEZZ		T Lo Arm Ass'y	AG
312	LANGA0069GEFW		S Lo Arm Retainer	AD
313	PGiDM0146GEZZ		Sup Rail	AD
314	PGiDM0171GEZZ		Tu Rail	AD
315	NGERH1284GEZZ		Sup Lo Gear	AC
316	NGERH1285GEZZ		Tu Lo Gear	AC
317	MSPRD0167GEZZ		S Lo Arm Double-Acting Spring	AE
318	MSPRT0407GEZZ		T Lo Arm Double-Acting Spring	AC
319	MLEVP0310GEZZ		HC Lever Ass'y	AD
321	MSLiF0074GEFW		Ten Arm Operation Lever	AD
322	PGiDM0148GEZZ		Ten Arm Guide	AC
323	NGERH3045GEFW		Segment Gear	AD
324	MLEVF0472GEZZ		Tu Guide Ass'y	AC
325	PGiDP0027GEZZ		Tu Guide	AE
326	MSPRC0183GEZZ		Tu Guide Spring	AA
327	MSPRC0184GEZZ		Si Roller Spring	AA
328	MSPRC0208GEZZ		Tu Guide Lever Spring	AC
329	LCHSS0049GEZZ		Slide Chassis Ass'y	AP
330	MLEVF0495GEZZ		Ten Arm Ass'y	AC
331	LBNDK3023GEZZ		Ten Band Ass'y	AF
332	NiDR-0016GEZZ		Swing Gear Ass'y	AF
333	NGERH1286GEZZ		Driving Gear	AC
334	NGERH1287GEZZ		Pulley Gear	AD
335	NPLYV0157GEZZ		Relay Pulley	AD
336	MLEVP0284GEZZ		S Brake	AC
337	NGERH1288GEZZ		Tu Brake Gear	AC
338	MLEVP0285GEZZ		Tu Main Brake	AC
339	MLEVP0286GEZZ		Tu Sub-Brake	AC
340	MSPRD0169GEZZ		Tu Brake Spring	AD
341	LHLDZ2053GEZZ		Light Guide Holder Ass'y	AF
342	LANGG9102GEFW		Down Guide	AF
343	MSPRT0408GEZZ		Tension Spring	AD
344	MSPRD0186GEZZ		S Brake Spring	AD
345	CDRMU0032GE02		Upper Drum Ass'y	BF
346	PGiDM0154GEZZ		Tape Guide	AB
348	QBRSK0039GEZZ		Earth Spring	AD
349	PGiDM0143GEZZ		Drum Base	AG
350	DDRML0020HE01		Lower Drum Ass'y	AY
351	RMOTP1137GEZZ		Drum Motor	AS
352	PSPAQ0010GEZZ		Gap Adjusting Shim	AC
353	NRTR-0096GEZZ		R Tr Rotor Ass'y	AP
354	MSPRC0209GEZZ		Gr Adjusting Spring	AC
355	LPOLM0058GEZZ		S Pole Base	AK
356	LPOLM0059GEZZ		T Pole Base	AK
357	NDAiV1071GEZZ		Sup Reel Support	AG
358	NDAiV1072GEZZ		Tu Reel Support	AG
359	MLEVF0517GEZZ		Pinch Lever Ass'y	AS
360	NBLTT0012GEZZ		Timing Belt S	AE
361	NBLTT0013GEZZ		Timing Belt L	AE
362	NROLP0108GEZZ		Guide Roller Ass'y	AG
363	NROLP0109GEZZ		Si Roller Ass'y	AH
364	QPWBH5428GEZZ		Mode FPC	AG
365	CPWBN5639GE01		Sensor Ass'y	AV
366	QSW-M0050GEZZ		Recognition SW	AD
367	RDTCH0037GEZZ		Dew Sensor	AF
368	RMOTV1019GEZZ		Cap. Motor	AZ
369	RMOTM1075GEZZ		Load. Motor	AL
370	QSW-R0038GEZZ		Mode SW	AG
372	RAMP-0017TAN1		H/A PWB	AY
374	TLABH0196TAZZ		Caution Label	AB
375	PSHEM0014GEZZ		Counter Balance	AC
376	PSHEP0013GEZZ		Interruption Sheet	AC
200	XAPSF17P03200		Screw M1.7x3.2	AA
201	LX-XZ3036GEFP		Screw M2.0x6.0	AD
202	LX-BZ3175GEFN		Screw M1.7x4.0	AC
203	LX-BZ3163GEFN		Screw M1.7x2.5	AC
204	LX-HZ3074GEFN		Screw M1.7x5.3 S Tight	AA
205	LX-BZ3177GEFF		Screw M1.4x1.5	AB
206	LX-HZ3132GEFF		Screw M1.4x1.5xD3.5	AB
207	LX-BZ3178GEZZ		Screw M1.4x1.5xD4.0	AD
208	LX-HZ3083GEFF		Screw M1.4x2.5 S Tight	AB
209	LX-HZ3077GEFN		Screw M1.4x3.0 S Tight	AA
211	LX-HZ3084GEFF		Screw M1.4x4.0 S Tight	AC
212	LX-HZ3116GEFD		Screw M1.4x3.2 S Tight	AB
213	LX-NZ3053GEZZ		Screw M1.4 Nut	AC
214	LX-WZ1076GE02		Washer D0.8xD3.0x0.2t Plastics	AA
215	LX-WZ1075GE02		Washer D2.1xD5.0x0.25t Plastics	AA
216	XWHJZ12-02040		Washer D1.2xD4.0x0.25t Plastics	AC

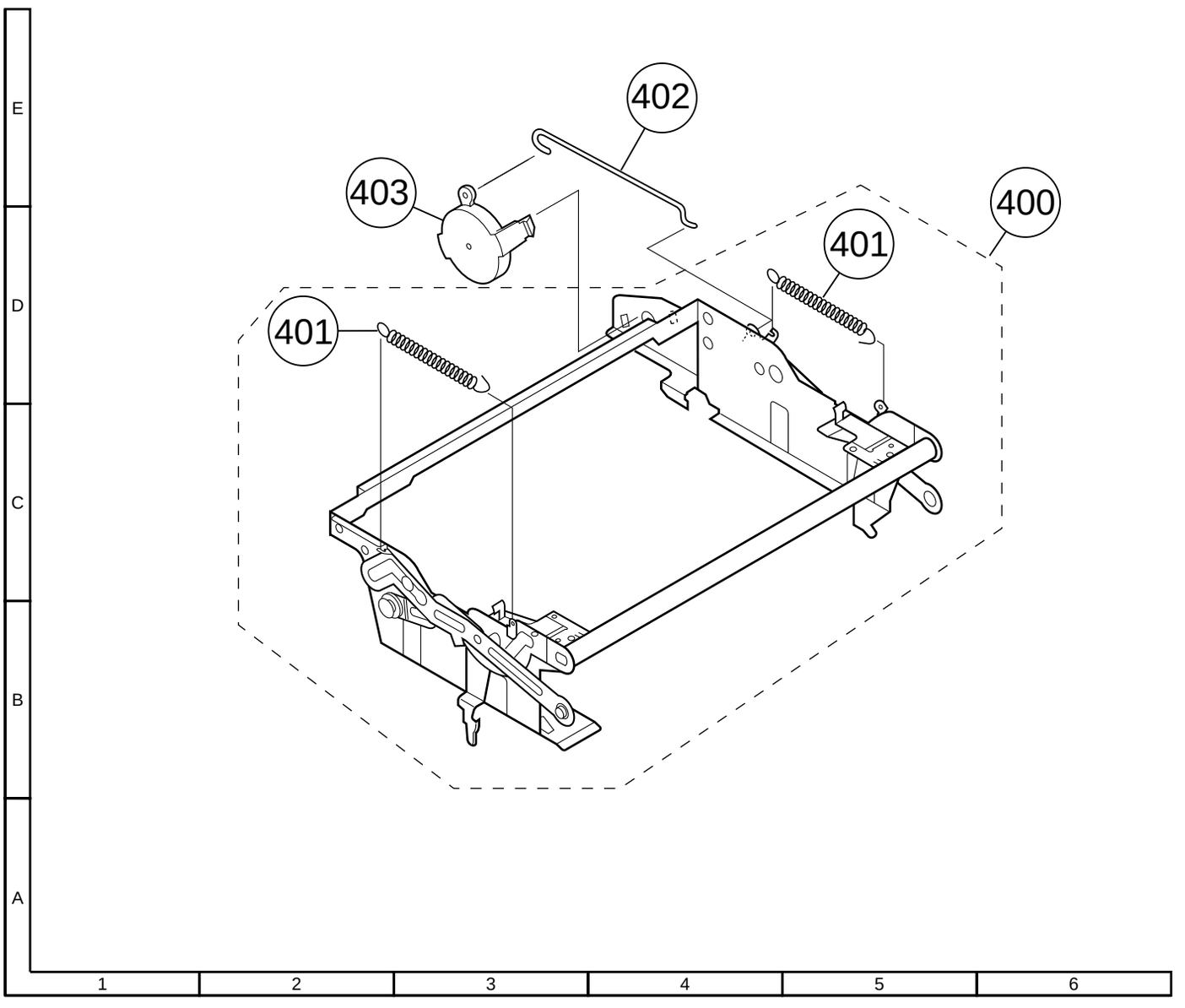
—— End of Mechanism Parts ——

VL-E630S/VL-E630H
VL-E680S/VL-E97E
VL-E99E

Ref. No.	Part No.	★	Description	Code
			CASSETTE HOUSING PARTS	
400	CHLDX3077GE01		Cassette Compartment Assy	AY
401	MSPRT0414GEZZ		Up Main Spring	AD
402	MROD-0014GEFJ		Damper rod	AG
403	PDMP-0013GEZZ		Cassette Compartment Damper	AG

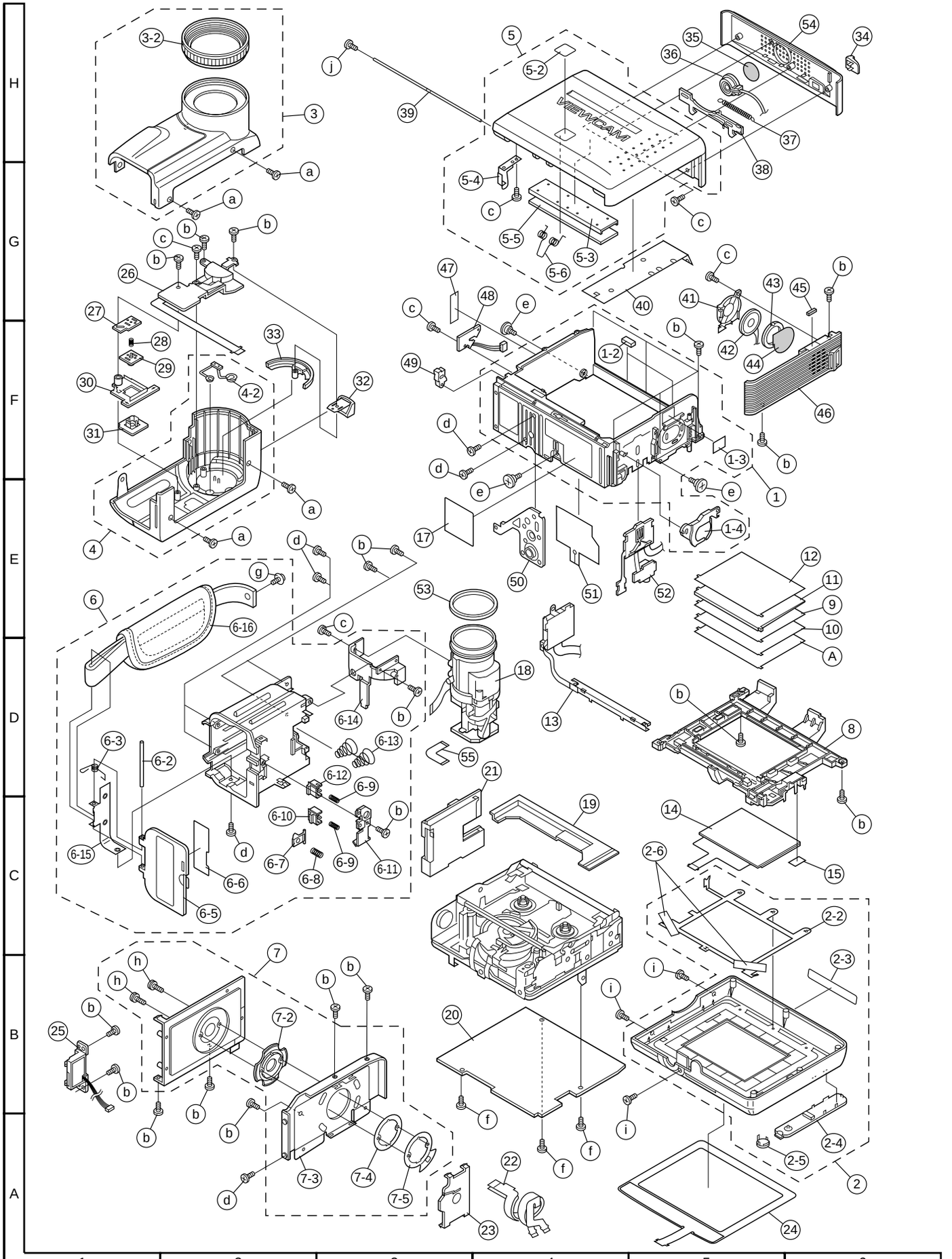
—— End of Cassette Housing Parts ——

CASSETTE HOUSING CONTROL UNIT



VL-E630S/VL-E630H
VL-E680S/VL-E97E
VL-E99E

CABINET EXPLODED VIEW



VL-E630S/VL-E630H
VL-E680S/VL-E97E
VL-E99E

CABINET PARTS LIST

Ref. No.	Part No.	★	Description	Code
1	DCABA6183TAK1		V Frame Service	AL
1-2	PSPAG0095TAZZ		VCR Lid Cushion	AA
1-3	TLABH0355TAZZ		Lithium Exchange Label	AB
1-4	LHLDB1027TAZZ		Lithium Holder	AD
2	DCABB6183TAK5		L Cabinet Service	AS
2-2	QEARP0233TAFJ		LCD Earth Sheet	AE
2-3	TLABH0318TAZZ		Facing Recording Caution Label	AB
2-4	GCOVH1226TASA		Jack Cover	AD
2-5	GCOVA1535TAZZ		Remote Control Receptor Cover	AD
2-6	ZTAPEZ800020E		Tape	—
3	CCABC6090TAK2		Camera Front Cabinet (VL-E630S/H/E97E)	AT
3	CCABC6091TAK4		Camera Front Cabinet (VL-E99E)	AT
3	CCABC6093TAK4		Camera Front Cabinet (VL-E680S)	
3-2	GCOVA1539TASB		Lens Hood	AK
4	DCABD6090TAK2		Camera Rear Cabinet (VL-E630S/H/E97E)	AQ
4	DCABD6088TAK4		Camera Rear Cabinet (VL-E680S/E99E)	AS
4-2	JBTN-0276TASA		Camera Button	AD
5	DFTAC1271TAK2		VCR Lid Service (VL-E630S/H)	AU
5	DFTAC1272TAK2		VCR Lid Service (VL-E680S)	
5	DFTAC1274TAK1		VCR Lid Service (VL-E97E)	AU
5	DFTAC1275TAK1		VCR Lid Service (VL-E99E)	
5-2	HBDGS0056TASA		LCD Badge	AE
5-3	LANGK0428TAFW		VCR Lid Reinforcing Angle	AG
5-4	LANGK0400TAFW		Eject Fitting	AD
5-5	PSPAZ0193TAZZ		VCR Lid Sheet	AC
5-6	MSPRD0047TAFJ		VCR Lid Spring	AD
6	CCOVA1536TAK7		KS Side Cover	AT
6-2	NSFTZ0049TAFW		Battery Lid Axle	AC
6-3	MSPRD0050TAFJ		Battery Lid Spring	AC
6-5	GFTAB1066TAKA		Battery Lid	AE
6-6	HDECP0045TASA		Battery Decoration Plate	AC
6-7	LHLDZ1448TA00		Battery Intermediate Lock	AC
6-8	MSPRC0103TAFJ		Battery Intermediate Lock Spring	AD
6-9	MSPRC0102TAFJ		Battery Lock Lever Spring	AA
6-10	MLEVP0030TASA		Battery Lid Open/Close Lever	AC
6-11	LHLDZ1449TAZZ		Battery Lock Holder	AC
6-12	MLEVP0029TASA		Battery Lock Lever	AC
6-13	MSPRC0101TAFJ		Battery Push-out Spring	AD
6-14	LHLDZ1445TAZZ		Lens Holder	AD
6-15	LANGK0398TA00		Battery Lid Angle Fitting	AH
6-16	UBNDT0104TAZZ		Hand Strap	AM
7	DCOVA1538TAK1		Tilt Ass'y	AU
7-2	PSPAZ0190TAZZ		Tilt Spacer	AE
7-3	GCOVA1537TAKA		Tilt Frame V	AL
7-4	PSPAZ0189TAZZ		Rotation Spacer	AD
7-5	LANGH0071TAFW		Stopper Fitting	AD
8	LHLDZ1446TAZZ		LCD Holder	AG
A	PSHEP0044TAZZ		Reflection Polarizing Sheet	AG
9	PSHEP0045TAZZ		Diffusion Sheet	AD
10	PSHEP0044TAZZ		Prism Sheet	AG
11	PGiDM0025TAZZ		Light Guide Plate	AG
12	PMiR-0021TAZZ		Reflection Sheet	AC
⚠ 13	CLMPV0043TA02		Lamp Inverter Unit	AZ
14	CPNLC0032RM01		LCD Panel	BZ
15	PZETV03A3TAZZ		LCD Glass Retaining	AA
17	TLABM1914TAZZ		Model Label(VL-E630S)	AD
17	TLABM1915TAZZ		Model Label(VL-E630H)	AD
17	TLABM1926TAZZ		Model Label(VL-E680S)	AD
17	TLABM1916TAZZ		Model Label(VL-E97E)	AD
17	TLABM1918TAZZ		Model Label(VL-E97EX)	AD
17	TLABM1917TAZZ		Model Label(VL-E97EW)	AD
17	TLABM1927TAZZ		Model Label(VL-E99E)	AD
17	TLABM1929TAZZ		Model Label(VL-E99EW)	AD
18	CLNSA0127TA01		Lens Unit	BS
19	GFTAC1241TASA		Cassette Compartment Cover	AD
20	DUNTK2783QA09		VCR Unit(VL-E630S)	—
20	DUNTK2783QA10		VCR Unit(VL-E630H)	—
20	DUNTK2783QA11		VCR Unit(VL-E97E)	—
20	DUNTK2783QA12		VCR Unit(VL-E680S)	—
20	DUNTK2783QA13		VCR Unit(VL-E99E)	—
21	DUNTK2785QA03		CAMERA Unit(VL-E630S/H)	—
21	DUNTK2785QA04		CAMERA Unit(VL-E97E)	—
21	DUNTK2785QA05		CAMERA Unit(VL-E680S)	—
21	DUNTK2785QA06		CAMERA Unit(VL-E99E)	—
22	QPWBH2814TAZZ		Tilt FPC	AQ
23	LHLDW1038TA00		FPC Holder	AC
24	QSW-Z0286TAZZ		VCR Operation Unit	AR
25	QTANZ0129TAZZ		Battery Terminal Unit	AG
26	QSW-Z0285TAZZ		Power Unit	AR
27	LHLDZ1452TAZZ		Power Lock Holder	AC
28	MSPRC0083TAFJ		Power Lock Spring	AA
29	JBTN-0277TASA		Power Button	AD
30	LHLDZ1451TAZZ		Power Holder	AC
31	JKNBP0152TASA		Power Knob	AD
32	JKNBP0153TASA		Zoom Knob	AD
33	LHLDZ1453TASA		Zoom Knob Holder	AD
34	JKNBP0154TASA		Open Knob	AC
35	PSPAZ0191TAZZ		Spacer	AA
36	RMiCC0079TAZZ		Microphone	AM
37	MSPRT0034TAFJ		Lid Lock Spring	AC
38	LHLDZ1454TA00		VCR Lid Lock	AD
39	NSFTZ0084TAFW		VCR Lid Shaft	AD
40	PSPAZ0192TAZZ		Microphone Lead Spacer	AD
41	LHLDZ1450TAZZ		Speaker Holder	AC
42	VSP0020P-94WN		Speaker	AL
43	PSPAG0103TAZZ		Speaker Spacer	AC
44	PCOVP9062TAZZ		Speaker Mesh	AB
45	PSPAG0095TAZZ		VCR Lid Cushion	AA
46	GCOVA3056TAKA		Speaker Cover	AE
47	ZTAPEZ800020E		Tape	—
48	QSW-Z0284TAZZ		Turn/Eject SW	AH
49	MLEVP0031TAZZ		Eject Lever	AC
50	LANGK0399TAFW		Tripod Angle Ass'y	AK
51	PSHEP0074TAZZ		Microphone Lead Sheet	AB
52	QJAKZ0071TAZZ		Jack Unit	AS
53	PSPAG0084TA00		Front Group Frame Rubber	AD
54	GCOVA3057TAKA		Microphone Cover	AG
55	QPWBH2815TAZZ		CCD FPC	AS
a	LX-HZ0018TAFN		M2x6 Tapping, Silver	AA
b	LX-HZ0018TAFF		M2x6 Tapping, Black	AA
c	LX-HZ0045TAFN		M2x4 Tapping, Silver	AA
d	XiPSF20P04000		M2x4 Small Screw, Black Zinc Plating	AA
e	LX-BZ0191TAFD		M2 Special Screw	AC
f	XiPSD20P03000		M2x3 Screw	AA
g	LX-UZ0016TAFD		M2x5 Special Screw	AA
h	LX-BZ0200TAFD		M2x7 Special Screw	AB
i	XiPSN20P04000		M2x4 Small Screw, Silver	AA
j	LX-HZ0063TAFC		M1.7x6 Tapping, Silver	AA

—— End of Cabinet Parts ——

VL-E630S/VL-E630H
VL-E680S/VL-E97E
VL-E99E

SUPPLIED ACCESSORIES

Ref. No.	Part No.	★	Description	Code
			ACCESSORIES	
	GCOVH1225TASA		Lens Cap	AG
	GCOVH1234TAZZ		Sun Hood (VL-E630S/H/E680S/E97EX)	AV
	UBNDS0010TASA		Shoulder Strap	AH
	TiNSE0326TAZZ		Operation Manual(VL-E630H)	AN
	TiNSL0151TAZZ		Operation Manual (Germany etc.)(VL-E630S)	AX
	TiNSL0152TAZZ		Operation Manual(VL-E630S) (English etc.)(VL-E630S)	AV
	TiNSL0153TAZZ		Operation Manual (Germany etc.)(VL-E680S)	AX
	TiNSL0154TAZZ		Operation Manual (English etc.)(VL-E680S)	AX
	TiNSL0164TAZZ		Operation Manual (VL-E97E/EX)	AS
	TiNSL0167TAZZ		Operation Manual (VL-E97EW)	AS
	TiNSL0165TAZZ		Operation Manual(VL-E99E)	
	TiNSL0168TAZZ		Operation Manual(VL-E99EW)	
⚠	QACCB0016TAZZ		AC Cable (VL-E630H/E97EW/E99EW)	AV
⚠	QACCK0002TAZZ		AC Cable (VL-E630S/E680S/E97E/E99E)	AM
⚠	QACCL0020TAZZ		AC Cable (VL-E97EX)	AP
	QCNW-1338TA00		DC Cable	AR
	QCNW-1448TAZZ		A/V Cable	AH
	QPLGA0010GEZZ		AC Plug(VL-E97E/E99E)	AF
	RRMCG0072TASA		Infrared Remote Control	AP
	UADP-0280TAZZ		AC Adaptor	—
	UADP-0281TAZZ		AC Adaptor(VL-E630H)	—
	UBATM0011TAZZ		Battery	BC
	UBATL0011TAZZ		Lithium Battery	AE
	UBATU0023GEZZ		Drycell Battery	AD
	TLABZ0495TAZZ		Remote Control Label (VL-E97E/EW/E99E/EW)	
			ACCESSORIES(NOT REPLACEMENT ITEM)	
	TGANL0004TAZZ		Guarantee Card (VL-E610S/E610H/E660S)	—

—— End of Supplied Accessories ——

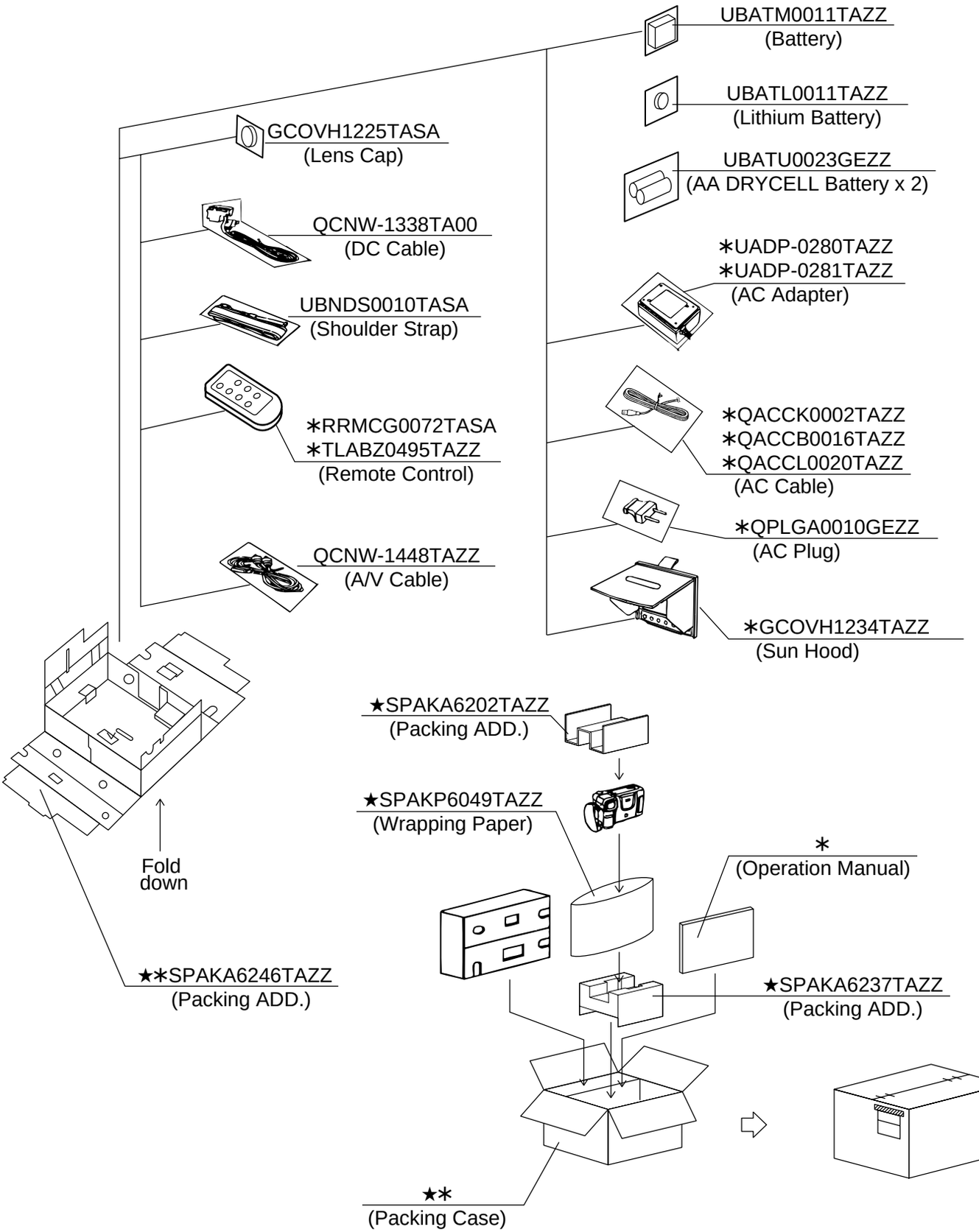
PACKING PARTS (NOT REPLACEMENT ITEM)

Ref. No.	Part No.	★	Description	Code
	SPAKC7385TAZZ		Packing Case(VL-E630S)	—
	SPAKC7396TAZZ		Packing Case(VL-E680S)	—
	SPAKC7387TAZZ		Packing Case(VL-E97H)	—
	SPAKC7397TAZZ		Packing Case(VL-E99E)	—
	SPAKC7388TAZZ		Packing Case(VL-E97EW)	—
	SPAKC7387TAZZ		Packing Case(VL-E97EX)	—
	SPAKC7398TAZZ		Packing Case(VL-E99EW)	—
	SPAKP6049TAZZ		Wrapping Paper	—
	SSAKA0087TAZZ		Polyethylene Bag (VL-E630H/E97E/EX/EW/ E99E/EW)	—
	SSAKA0088TAZZ		Polyethylene Bag (VL-E630S/E680S)	—
	SPAKA6202TAZZ		Packing ADD.	—
	SPAKA6237TAZZ		Packing ADD.	—
	SPAKA6246TAZZ		Packing ADD. (VL-E630S/H/E97EX/E680S)	—
	SPAKA6176TAZZ		Packing ADD. (VL-E97E/EW/ VL-E99E/EW/)	—

—— End of Packing Parts ——

VL-E630S/VL-E630H
VL-E680S/VL-E97E
VL-E99E

11. PACKING OF THE SET



★ Not Replacement Item
∗ For detail, see page 12.

VL-E630S/VL-E630H
VL-E680S/VL-E97E
VL-E99E

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